

STIC-Biotech/ChemLib

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From: Yu, Misook
Sent: Thursday, March 16, 2006 6:33 AM
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Subject: 09/724,406

Pls do interference search of SEQ ID NO: 2.

Examiner Misook Yu, Ph.D.
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400 Dulany Street
Alexandria, VA 22314

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MAR 16 2006
(SAC)

Searcher: _____
Searcher Phone: _____
Date Searcher Picked up: _____
Date completed: _____
Searcher Prep Time: _____
Online Time: _____

Type of Search
NA# _____ AA# _____
S/L: _____ Oligomer: _____
Encode/Transl: _____
Structure #: _____ Text: _____
Inventor: _____ Litigation: _____

Vendors and cost where applicable
STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: _____
WWW/Internet: _____
Other (Specify): _____

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OM protein - protein search, using SW model

Run on: March 17, 2006, 20:23:11 ; Search time 48 Seconds
(without alignments)

201.522 Million cell updates/sec

Title: US-09-724-406-2

Perfect score: 635

Sequence: 1 QIQLQQSGPEVVKPGASVKTI.....NYGNYWFAYWGOCTQVTVSA 117

Scoring table: BLOSUM62

Gapext: 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:
1: /cgn2_6/ptodata/1/iaa/5/COMB.pep:
2: /cgn2_6/ptodata/1/iaa/6/COMB.pep:
3: /cgn2_6/ptodata/1/iaa/7/COMB.pep:
4: /cgn2_6/ptodata/1/iaa/8/COMB.pep:
5: /cgn2_6/ptodata/1/iaa/9/COMB.pep:
6: /cgn2_6/ptodata/1/iaa/backfile1.pep:
*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No. Score Query Match Length DB ID Description

Result No.	Score	Query Match	Length	DB ID	Description
1	543.5	85.6	139	1 US-08-253-877C-8	Sequence 8, Appli
2	543.5	85.6	139	1 US-08-452-164A-8	Sequence 8, Appli
3	539.5	85.2	138	2 US-08-603-024-2	Sequence 2, Appli
4	501.5	85.0	116	1 US-08-888-366-2	Sequence 2, Appli
5	497.5	78.3	122	2 US-08-767-128-4	Sequence 4, Appli
6	494	77.8	119	1 US-08-767-128-20	Sequence 20, Appli
7	490	77.2	119	1 US-08-458-516-11	Sequence 11, Appli
8	490	77.2	138	1 US-08-458-516-11	Sequence 11, Appli
9	486	76.5	117	2 US-09-157-370-2	Sequence 2, Appli
10	483.5	76.1	139	1 US-08-116-778B-1	Sequence 1, Appli
11	483.5	76.1	139	1 US-08-438-562-1	Sequence 1, Appli
12	483.5	76.1	139	1 US-08-483-528B-91	Sequence 91, Appli
13	480.5	75.7	118	1 US-08-428-57A-74	Sequence 74, Appli
14	480.5	75.7	118	2 US-07-987-264-14	Sequence 14, Appli
15	477.5	75.2	128	1 US-08-202-047-21	Sequence 21, Appli
16	477.5	75.2	128	2 US-08-964-90-21	Sequence 21, Appli
17	476	75.0	121	2 US-08-881-037-55	Sequence 65, Appli
18	475.5	74.9	139	1 US-08-253-877C-19	Sequence 19, Appli
19	475.5	74.9	139	1 US-08-452-164A-19	Sequence 19, Appli
20	475.5	74.9	139	2 US-08-603-024-18	Sequence 18, Appli
21	475.5	74.9	139	2 US-08-450-80-14	Sequence 14, Appli
22	474	74.6	119	1 US-08-458-516-10	Sequence 10, Appli
23	474	74.6	222	1 US-08-458-516-22	Sequence 22, Appli
24	474	74.6	235	1 US-08-458-516-23	Sequence 23, Appli
25	474	74.6	240	2 US-10-092-246-34	Sequence 34, Appli
26	474	74.6	240	2 US-10-092-246-35	Sequence 35, Appli
27	474	74.6	240	2 US-10-092-246-36	Sequence 36, Appli

ALIGNMENTS

RESULT 1
US-08-253-877C-8
; Sequence 8, Application US/08253877C
; Patent No. 573001
; GENERAL INFORMATION:
; APPLICANT: Hamann, Philip R.
; APPLICANT: Hirman, Lois
; APPLICANT: Hollander, Irwin
; APPLICANT: Holcomb, Ryan
; APPLICANT: Hallott, William
; APPLICANT: Tsou, Ruei-Ru
; APPLICANT: Weiss, Martin J.
; TITLE OF INVENTION: Conjugates of Methyltrithio Antitumor
; TITLE OF INVENTION: Agents and Intermediates for Their Synthesis
; NUMBER OF SEQUENCES: 73
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: American Cyanamid Company
; STREET: One Cyanamid Plaza
; CITY: Wayne
; STATE: New Jersey
; COUNTRY: U.S.A.
; ZIP: 07470-8426
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/253,877C
; FILING DATE: 03-JUN-1994
; CLASSIFICATION: 424
; ATTORNEY / AGENT INFORMATION:
; NAME: Barnhard, Elizabeth M.
; REGISTRATION NUMBER: 31,088
; REFERENCE DOCKET NUMBER: 32,368
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-331-3246
; TELEFAX: 201-331-3305
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 139 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-253-877C-8

Query Match 85.6%; Score 543.5%; DB 1;
Best Local Similarity 87.5%; Pred. No. 7.9e-44;
Matches 105; Conservative 5; Mismatches 7; Indels 3; Gaps 2;

RESULT 2

US-08-452-164A-8

Sequence 8, Application US/08452164A

Patent No. 5877296

GENERAL INFORMATION:

APPLICANT: Hammann, Philip R.

APPLICANT: Hinman, Lois

APPLICANT: Holcomb, Ryan

APPLICANT: Hollander, Irwin

APPLICANT: Hallett, William

APPLICANT: Tsou, Hwei-Ru

APPLICANT: Weiss, Martin J.

TITLE OF INVENTION: Conjugates of Methylthiatio Antitumor Agents and Intermediates For Their Synthesis

NUMBER OF SEQUENCES: 73

CORRESPONDENCE ADDRESS:

ADDRESSEE: American Home Products Corporation

STREET: One Campus Drive

CITY: Parrypany

STATE: New Jersey

ZIP: 07054

COMPUTER READABLE FORM:

COMMODITY TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/452,164A

FILING DATE: 26-MAY-1995

CLASSIFICATION: 530

ATTORNEY/AGENT INFORMATION:

NAME: Barthard, Elizabeth M.

REGISTRATION NUMBER: 31,088

REFERENCE/DOCKET NUMBER: 32,368-04

TELECOMMUNICATION INFORMATION:

TELEPHONE: 201-683-2158

TELEFAX: 201-683-4117

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:

LENGTH: 139 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-452-164A-8

Query Match 85.6%; Score 543.5; DB 1; Length 139;

Best Local Similarity 87.5%; Pred. No. 7.9e-44; Gaps 2;

Matches 105; Conservative 5; Mismatches 7; Indels 3; Gaps 2;

Query 1 QIQIQQSGPVERPGAVSKVSKCKASGYPTDYYTIVKXPQGQLEWIGWIVPGSGNTK 60

Query 20 QIQIQQSGPVERPGAVSKVSKCKASGYPTDYYTIVKXPQGQLEWIGWIVPGSGNTK 79

Query 61 NEKFKGKATLTVDTSSATFQLSSLTSETDAYFCA-NYGGTQTVTA 117

Query 80 NEKFKGKATLTVDTSSATMQLSSLTSETDAYFCA-NYGGTQTVTA 139

```

APPLICANT: Hinman, Lois M.
APPLICANT: Menendez, Ana T.
APPLICANT: Hamann, Philip R.
TITLE OF INVENTION: TARGETED FORMS OF METHYLTRITHIO
TITLE OF INVENTION: ANTITUMOR AGENTS
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS: 27
ADDRESSEE: American Home Products Corporation
STREET: One Campus Drive
CITY: Parryppany
STATE: NJ
COUNTRY: USA
ZIP: 07054

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/603,024
FILING DATE: 16-FEB-1996
CLASSIFICATION: 424

ATTORNEY/AGENT INFORMATION:
NAME: Barnhard, Elizabeth M.
REGISTRATION NUMBER: 31,088
REFERENCE/DOCKET NUMBER: 31, 9312-03
TELECOMMUNICATION INFORMATION:
TELEPHONE: 973-683-2158
TELEFAX: 973-683-4117
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 138 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-603-024-2

Query Match 85.0%; Score 539.5; DB 2; Len 2
Best Local Similarity 87.4%; Pred. No. 1.9e-43; 7
Matches 104; Conservative 5; Mismatches 7; Indels 0

Qy 1 QIQLQQSGPEVREGASVKSICRASGTYFDIYTTWVKQRPQGQ
Db 20 QIQLQQSGPELVEKGASVKSICRASGTYFDIYNNMKQPKGQ

Qy 61 NBEKFKGRATLTVDTSSSTAFMQLSSLTSDTAYVFC-A-NYGNY
Db 80 NBEKFKGRATLTVDTSSSTAYMQLSSLTSDTAYVFCARBRITY

RESULT 4
US-08-088-366-2
; Sequence 2, Application US/08888366
; Patent No. 5977656
; GENERAL INFORMATION:
; APPLICANT: Lopez, Osvaldo
; APPLICANT: Wylie, Dwane E.
; APPLICANT: Wagner, Fred W.
TITLE OF INVENTION: Mercury Binding Polypeptides and
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merchant & Gould
STREET: 90 South 7th Street, 3100 No. 5972656west
CITY: Minneapolis
STATE: MN
COUNTRY: USA
ZIP: 55402

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:

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APPLICATION NUMBER: US/08/888,366
 FILING DATE: 03-JUL-1997
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/187,407
 FILING DATE: 27-JAN-1994
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 07/990,542
 FILING DATE: 14-DEC-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Carter, Charles G.
 REGISTRATION NUMBER: 35,093
 REFERENCE/DOCKET NUMBER: 8648.390US
 TELECOMMUNICATION: INFORMATION:
 TELEPHONE: 612-332-5300
 TELEFAX: 612-332-9081
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 116 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULAR TYPE: protein
 US-08-888-366-2

Query Match 94; Score 50
 Best Local Similarity 80.3%; Pred. No. 9; Mismatches 94;
 Matches 94; Conserved 9;

Qy	1 OIQLOQSQSPPEVVKPGASTVKSICKASGTT
Db	1 EYVLOQSQSPPEVPGALKVSKICKASGTT
Qy	61 NEKPKGKATLTVTDSSSTAFMQLSSLS
Db	61 NEKPKGKATLTAQSSSPAYMQLSSLS

RESULT 5
 US-08-767-128-4
 / Sequence 4, Application US/08/767128
 / Patent No. 6111079
 / GENERAL INFORMATION:
 / APPLICANT: WYLIE, DWANE E.
 / APPLICANT: LOPEZ, OSVALDO
 / APPLICANT: MURRAY, PETER JOSEPH
 / APPLICANT: GOBBEL, PETER
 / TITLE OF INVENTION: LEAD BINDING POLYNUCLEOTIDES CODING
 / NUMBER OF SEQUENCES: 46
 / CORRESPONDENCE ADDRESS:
 / ADDRESSEE: Merchant, Gould, Smith,
 / STREET: 3100 No. 6111079west Cent
 / CITY: Minneapolis
 / STATE: MN
 / COUNTRY: USA
 / ZIP: 55402
 / COMPUTER READABLE FORM:
 / MEDIUM TYPE: Diskette
 / COMPUTER: IBM Compatible
 / OPERATING SYSTEM: DOS
 / SOFTWARE: FastSEQ Version 1.5
 / CURRENT APPLICATION DATA:
 / APPLICATION NUMBER: US/08/767,128
 / FILING DATE:
 / CLASSIFICATION: 424
 / PRIOR APPLICATION DATA:
 / APPLICATION NUMBER:

```

FILING DATE: 04-DBC-1996
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/09258
FILING DATE: 05-JUN-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/541,373
FILING DATE: 10-OCT-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/462,798
FILING DATE: 05-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Carter, Charles G.
REGISTRATION NUMBER: 35,093
REFERENCE/DOCKET NUMBER: 8648.49USP1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 612/371-5278
TELEFAX: 612/332-9081

TELEX:
SEQUENCE CHARACTERISTICS:
LENGTH: 122 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: internal
ORIGINAL SOURCE:
US-08-767-128-4

Query Match          78.3% ; Score 497.5; DB 2; Length 122;
Best Local Similarity 77.0% ; Pred. No. 1.4e-30;          5; G
Matches 94; Conservative 9; Mismatches 14; Indels 5;
G

QY  1 QIQLOQSGPETYVKPGASVKLSKASGTYPTDDYTITWVQKPGQGLENIGWVYQSGG
Db  1 QVQLQSGAGLVKPGASVKLSKASGTYPTTEIHWVQKRSQGQGLENIGWVYQSGG

QY  61 NBKPKRGATLTVTDSSSTAPMQLSSLSEDTAVYPCA--NTGNY--WFAYMGGT
Db  61 NEKPKDQATLTAQDSSSTVIMELSLTISSEDAVYFCARHEGYGNVAVPAYWGGT

QY  116 SA 117
Db  121 SA 122

RESULT 6
US-08-767-128-20
; Sequence 20, Application US/08767128
; GENERAL INFORMATION:
;    PATENT NO. 611079
;    APPLICANT: WILIE, DWANE E.
;    APPLICANT: LOPEZ, OSVALDO
;    APPLICANT: MURRAY, PETER JOSEPH
;    APPLICANT: GOEBEL, PETER
;    TITLE OF INVENTION: LEAD BINDING POLYPEPTIDES AND
;    NUMBER OF SEQUENCES: 46
;    CORRESPONDENCE ADDRESS:
;    ADDRESS: Merchant, Gould, Smith, Edell, Welter & Schmidt
;    STREET: 3100 No. 6111079west Center, 90 South Seventh St
;    CITY: Minneapolis
;    STATE: MN
;    COUNTRY: USA
;    ZIP: 55402
;    COMPUTER READABLE FORM:
;    MEDIUM TYPE: Diskette
;    COMPUTER SYSTEM: IBM Compatible
;    OPERATING SYSTEM: DOS
;    SOFTWARE: FastSEQ Version 1.5

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CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/767,128
 FILING DATE:
 CLASSIFICATION: 424
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 04-DEC-1996
 FILING DATE: 10-OCT-1996
 CLASSIFICATION: 424
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/US96/09258
 FILING DATE: 05-JUN-1996
 ATTORNEY/AGENT INFORMATION:
 NAME: Carter, Charles G.
 REGISTRATION NUMBER: 35,093
 REFERENCE/DOCKET NUMBER: 8648.49USP1
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 612/371-5278
 TELEX: 612/322-9081
 INFORMATION FOR SEQ ID NO: 20:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 119 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 HYPOTHEtical: NO
 ANTI-SENSE: NO
 FRAGMENT TYPE: internal
 ORIGINAL SOURCE:
 JS-08-767-128-20

RESULT 7
 Query Match 77.8%; Score 494; DB 2; Length 119;
 Best Local Similarity 76.5%; Pred. No. 3e-39;
 Matches 91; Conservative 14; Mismatches 12; Indels 2; Gaps 1;
 QY 1 OIQLQSGPVGASVKSICRASGTYTDDYITWKRQPGGLEWIGWTPSGNTKY 60
 DB 1 QVQLQQSGVLMRPGASVKSICRASGTYTDDYITWKRQPGGLEWIGWTPSGNTY 60
 61 NEKFKGKATLVDTSSSTAFMQLSSLTSSTAVYFCAN-YGNYWFAYWQGQTVYSA 117
 61 NEKFKGKATLVDTSSSTAFMQLSSLTSSTAVYFCAN-YGNYWFAYWQGQTVYSA 119

RESULT 8
 Query Match 77.2%; Score 490; DB 1; Length 119;
 Best Local Similarity 78.2%; Pred. No. 7.2e-35;
 Matches 93; Conservative 11; Mismatches 13; Indels 2; Gaps 2;
 QY 1 QIQLQSGPVGASVKSICRASGTYTDDYITWKRQPGGLEWIGWTPSGNTKY 60
 DB 1 QVQLQQSGVLMRPGASVKSICRASGTYTDDYITWKRQPGGLEWIGWTPSGNTY 60
 61 NEKFKGKATLVDTSSSTAFMQLSSLTSSTAVYFCAN-GNYWFAYWQGQTVYSA 117
 61 NEKFKGKATLVDTSSSTAFMQLSSLTSSTAVYFCAN-GNYWFAYWQGQTVYSA 119

RESULT 8
 US-08-458-516-7
 Query Match 77.2%; Score 490; DB 1; Length 119;
 Best Local Similarity 78.2%; Pred. No. 7.2e-35;
 Matches 93; Conservative 11; Mismatches 13; Indels 2; Gaps 2;
 QY 1 QIQLQSGPVGASVKSICRASGTYTDDYITWKRQPGGLEWIGWTPSGNTKY 60
 DB 1 QVQLQQSGVLMRPGASVKSICRASGTYTDDYITWKRQPGGLEWIGWTPSGNTY 60
 61 NEKFKGKATLVDTSSSTAFMQLSSLTSSTAVYFCAN-GNYWFAYWQGQTVYSA 117
 61 NEKFKGKATLVDTSSSTAFMQLSSLTSSTAVYFCAN-GNYWFAYWQGQTVYSA 119

RESULT 8
 US-08-458-516-7
 Sequence 7, Application US/08458516
 Patent No. 5777085
 GENERAL INFORMATION:
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC DOS/MS DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/458,516
 FILING DATE:
 CLASSIFICATION: 424
 ATTORNEY/AGENT INFORMATION:
 NAME: Smith, William M.
 REGISTRATION NUMBER: 30,223
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 415-326-2400
 TELEX: 415-326-2400
 INFORMATION FOR SEQ ID NO: 7:

SEQUENCE CHARACTERISTICS:

LENGTH: 138 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE_TYPE: protein

US-08-458-516-7

Query Match 77.2%; Score 490; DB 1; Length 138;
Best Local Similarity 78.2%; Pred. No. 8.4e-39;
Matches 93; Conservative 11; Mismatches 13; Indels 2; Gaps 2;Qy 1 QIQLQQSGPEVVKPGASVKISCKASGTTPTDYYITWVKQPKQGLENIGWYPGSGNTKY 60
Db 20 QVQLQQSGAEVLVPGTTSVRSCKASGTTPTDYYITWVKQPKQGLENIGWYPGSGNTY 79Qy 61 NEKPKGKATLTVDTSSSTAAMQQLSSITSDTAVFCANYGNTWPAVNGQTTVVA 117
Db 80 NEKPKGKATLTVDTSSSTAAMQQLSSITSDTAVFCARRYGNTWPAVNGQTTVVA 138

RESULT 9

US-09-157-370-2

Sequence 2, Application US/09157370A

Patent No. 626238

GENERAL INFORMATION:

APPLICANT: STEIPE, Boris

APPLICANT: STEINBACHER, Stefan

TITLE OF INVENTION: PROCESS FOR MODIFYING THE STABILITY OF ANTIBODIES

FILE REFERENCE: P6341-8072

CURRENT APPLICATION NUMBER: US/09/157,370A

CURRENT FILING DATE: 1998-09-21

EARLIER APPLICATION NUMBER: DB/P44 25 115.7

EARLIER FILING DATE: 1997-01-14

EARLIER APPLICATION NUMBER: PCT/EP95/02626

EARLIER FILING DATE: 1995-07-06

EARLIER APPLICATION NUMBER: DB/P44 25 115.7

EARLIER FILING DATE: 1994-07-15

NUMBER OF SEQ ID NOS: 10

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 2

LENGTH: 117

TYPE: PRT

ORGANISM: Mus sp.

US-09-157-370-2

Query Match 76.5%; Score 486; DB 2; Length 117;
Best Local Similarity 76.9%; Pred. No. 1.7e-38;
Matches 90; Conservative 13; Mismatches 14; Indels 0; Gaps 0;Qy 1 QIQLQQSGPEVVKPGASVKISCKASGTTPTDYYITWVKQPKQGLENIGWYPGSGNTKY 60
Db 1 EVQLQQSGEVLVPGTTSVRSCKASGTTPTDYYITWVKQPKQGLENIGWYPGSGNTY 60Qy 61 NEKPKGKATLTVDTSSSTAAMQQLSSITSDTAVFCANYGNTWPAVNGQTTVVA 117
Db 61 NEKPKGKATLTVDTSSSTAAMQQLSSITSDTAVFCARRYGNTWPAVNGQTTVVA 117Query Match 76.1%; Score 483.5; DB 1; Length 139;
Best Local Similarity 75.0%; Pred. No. 3.5e-38;
Matches 90; Conservative 14; Mismatches 13; Indels 3; Gaps 1;Qy 1 QIQLQQSGPEVVKPGASVKISCKASGTTPTDYYITWVKQPKQGLENIGWYPGSGNTKY 60
Db 20 EVQLQQSGEVLVPGTTSVRSCKASGTTPTDYYITWVKQPKQGLENIGWYPGSGNTKY 79Qy 61 NEKPKGKATLTVDTSSSTAAMQQLSSITSDTAVFCANYGNTWPAVNGQTTVVA 117
Db 80 NEKPKGKATLTVDTSSSTAAMQQLSSITSDTAVFCARRYGNTWPAVNGQTTVVA 139RESULT 10
US-08-116-778B-1
Sequence 1, Application US/08116778B
Patent No. 5830470
GENERAL INFORMATION:
APPLICANT: NAKAMURA, KAZUYASU
APPLICANT: KOIKE, MASAMICHI
APPLICANT: SHITARA, KENYA
APPLICANT: HANAI, NORUO
APPLICANT: KUWANA, YOSHIHISA
APPLICANT: HASEGAWA, MAMORU
TITLE OF INVENTION: HUMANIZED ANTIBODIES
NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
ADDRESSEE: NIXON & VANDERHYE P.C.RESULT 11
US-08-438-562-1
Sequence 1, Application US/08438562
Patent No. 5874255

GENERAL INFORMATION:

APPLICANT: NAKAMURA, KAZUYASU
APPLICANT: KOIKE, MASAMICHI
APPLICANT: SHITARA, KENYA
APPLICANT: HANAI, NORUO
APPLICANT: KUWANA, YOSHIHISA
APPLICANT: HASEGAWA, MAMORU
TITLE OF INVENTION: HUMANIZED ANTIBODIES
NUMBER OF SEQUENCES: 4,9
CORRESPONDENCE ADDRESS:
ADDRESS: NIXON & VANDERHYE P.C.
STREET: 1100 NORTH GLEBE ROAD
CITY: ARLINGTON
STATE: VIRGINIA
COUNTRY: U.S.A.
ZIP: 22201-4714

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/438,562
FILING DATE: 10-MAY-95
CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/116,778
FILING DATE: 07-SEP-93
CLASSIFICATION: 424

ATTORNEY/AGENT INFORMATION:

NAME: WILSON, MARY J.
REGISTRATION NUMBER: 32,955
REFERENCE DOCKET NUMBER: 249-76

TELECOMMUNICATION INFORMATION:

TELEPHONE: (703) 816-4000
TELEFAX: (703) 816-4100

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:
LENGTH: 139 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein

FEATURE:
NAME/KEY: sig_peptide
LOCATION: -19:-1
IDENTIFICATION METHOD: BY SIMILARITY
WITH KNOWN SEQUENCE OR TO AN
ESTABLISHED CONSENSUS
IDENTIFICATION METHOD: ESTABLISHED CONSENSUS
OTHER INFORMATION: /product= "HYPERVARIABLE REGION 1"

FEATURE:
NAME/KEY: domain
LOCATION: 31:35
IDENTIFICATION METHOD: BY SIMILARITY
WITH KNOWN SEQUENCE OR TO AN ESTABLISHED
CONSENSUS
IDENTIFICATION METHOD: ESTABLISHED CONSENSUS
OTHER INFORMATION: /product= "HYPERVARIABLE REGION 2"

FEATURE:
NAME/KEY: domain
LOCATION: 50:66
IDENTIFICATION METHOD: BY SIMILARITY
WITH KNOWN SEQUENCE OR TO AN ESTABLISHED
CONSENSUS
IDENTIFICATION METHOD: ESTABLISHED CONSENSUS
OTHER INFORMATION: /product= "HYPERVARIABLE REGION 3"

FEATURE:
NAME/KEY: domain
LOCATION: 99..109
IDENTIFICATION METHOD: BY SIMILARITY
WITH KNOWN SEQUENCE OR TO AN ESTABLISHED
CONSENSUS
IDENTIFICATION METHOD: ESTABLISHED CONSENSUS
OTHER INFORMATION: /product= "HYPERVARIABLE REGION 2"

US-08-438-562-1

Query Match Similarity 76.1%; Score 483.5; DB 1; Length 139;
Best Local Similarity 75.0%; Pted. No. 3.5e-38;

Matches 90; Conservative 14; Mismatches 13; Indels 3; Gaps 1;

Qy 1 QIQLOQSGPPEVYKPGASKVTKSCASKGTYTFTYYVITWYKQFQGFLWIGWYTPGSGNTKY 60
Db 20 EVQLQSGPPEVYKPGASKVTKSCASKGTYTFTDYNMDVKOSHGSLEWIGYIYPNNNGTGY 79

Qy 61 NEKPKGKATLTVTDSSSTAFQQLSLSEDATVYCPANQNYW--FAYNQGQTVTVSA 117
Db 80 NQKEKQKATLTVTDSSSTAFQQLSLSEDATVYCPANQNYW--FAYNQGQTVTVSA 139

RESULT 12
US-08-483-528B-91
Sequence 91, Application US/08483528B
Patent No. 5319532

GENERAL INFORMATION:
APPLICANT: NAKAMURA, KAZUYASU
APPLICANT: KOIKE, MASAMICHI
APPLICANT: SHITARA, KENYA
APPLICANT: HANAI, NORUO
APPLICANT: KUWANA, YOSHIHISA
APPLICANT: HASEGAWA, MAMORU
TITLE OF INVENTION: HUMANIZED ANTIBODIES
NUMBER OF SEQUENCES: 103
CORRESPONDENCE ADDRESS:
ADDRESSEE: NIXON & VANDERHYE P.C.
STREET: 1100 NORTH GLEBE ROAD
CITY: ARLINGTON
STATE: VIRGINIA
COUNTRY: U.S.A.
ZIP: 22201-4714
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/483,528B
FILING DATE: 07-JUN-95
CLASSIFICATION: 536
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 816-4000
TELEFAX: (703) 816-4100
INFORMATION FOR SEQ ID NO: 91:
SEQUENCE CHARACTERISTICS:
LENGTH: 139 amino acids
TYPE: amino acid
TOPOLogy: linear
MOLECULE TYPE: protein
FEATURE:
NAME/KEY: sig_peptide
LOCATION: -11..1
IDENTIFICATION METHOD: BY SIMILARITY
WITH KNOWN SEQUENCE OR TO AN
ESTABLISHED CONSENSUS
IDENTIFICATION METHOD: ESTABLISHED CONSENSUS
OTHER INFORMATION: /product= "HYPERVARIABLE REGION 1"

FEATURE:
NAME/KEY: domain
LOCATION: 31:35
IDENTIFICATION METHOD: BY SIMILARITY
WITH KNOWN SEQUENCE OR TO AN ESTABLISHED
CONSENSUS
IDENTIFICATION METHOD: ESTABLISHED CONSENSUS
OTHER INFORMATION: /product= "HYPERVARIABLE REGION 2"

FEATURE:
NAME/KEY: domain
LOCATION: 50..66
IDENTIFICATION METHOD: BY SIMILARITY
WITH KNOWN SEQUENCE OR TO AN ESTABLISHED
CONSENSUS
IDENTIFICATION METHOD: ESTABLISHED CONSENSUS
OTHER INFORMATION: /product= "HYPERVARIABLE REGION 3"

FEATURE:
NAME/KEY: domain
LOCATION: 99..109
IDENTIFICATION METHOD: BY SIMILARITY
WITH KNOWN SEQUENCE OR TO AN ESTABLISHED
CONSENSUS
IDENTIFICATION METHOD: ESTABLISHED CONSENSUS
OTHER INFORMATION: /product= "HYPERVARIABLE REGION 2"

US-08-438-562-1

Query Match Similarity 76.1%; Score 483.5; DB 1; Length 139;
Best Local Similarity 75.0%; Pted. No. 3.5e-38;

IDENTIFICATION METHOD: WITH KNOWN SEQUENCE OR TO AN ESTABLISHED
 OTHER INFORMATION: CONSENSUS
 OTHER INFORMATION: /product= "HYPERVARIABLE REGION 3"
 US-08-483-528B-91

Query Match 76.1%; Score 483.5; DB 1; Length 139;
 Best Local Similarity 75.0%; Pred. No. 3.5e-38;
 Matches 90; Conservative 14; Mismatches 13; Indels 3; Gaps 1;

Qy 1 QIQLQSGPVEVKGASVKSICKASGTFPTDYYITWVQKPGQGLEWIGWYPGSGNTKY 60
 Db 20 QVOLQSGPVEVKGASVKSICKASGTFPTDYYITWVQKPGQGLEWIGWYPGSGNTKY 79

Qy 61 NEKPKGKATLTVTDSSSTAFMQLSSLTSEDATVYFCANYGNYW---FAYNGCGTQTVVSA 117
 Db 80 NOKPKSKATLTVTDSSSTAYMLHSLSSEDASAVYCATYGHYGYMFAYW-SQGLTVVSA 139

RESULT 13
 US-08-428-257A-74
 Sequence 74, Application US/08428257A
 GENERAL INFORMATION:
 APPLICANT: Spooner, Robert A.
 APPLICANT: Epenoter, A.A.
 TITLE OF INVENTION: Compounds to target cells
 NUMBER OF SEQUENCES: 80
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Jules B. Goldberg
 STREET: 261 Madison Avenue
 CITY: New York
 STATE: NY
 COUNTRY: USA
 ZIP: 10016-2391
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/428, 257A
 FILING DATE: 07/05/95
 CLASSIFICATION: 514
 INFORMATION FOR SEQ ID NO: 74:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 118 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-428-257A-74

Query Match 75.7%; Score 480.5; DB 1;
 Best Local Similarity 75.4%; Pred. No. 5.5e-38;
 Matches 89; Conservative 15; Mismatches 13; Indels 1; Gaps 1;

Qy 1 QIQLQSGPVEVKGASVKSICKASGTFPTDYYITWVQKPGQGLEWIGWYPGSGNTKY 60
 Db 1 QVOLQSGAELMKPGASVKSICKASGTFPTDYYITWVQKPGQGLEWIGWYPGSGNTKY 60

Qy 61 NEKPKGKATLTVTDSSSTAFMQLSSLTSEDATVYFCANYGNYWFAWYNGQGTQTVVSA 117
 Db 61 NEKPKGKATLTVTDSSSTAYMLHSLSSEDASAVYCATYGHYGYMFAYW-SQGLTVVSA 118

RESULT 15
 US-08-202-047-21
 Sequence 21, Application US/08202047
 GENERAL INFORMATION:
 APPLICANT: CHESENBUR, Robert W.
 APPLICANT: POLLIS, Margaret J.
 APPLICANT: PAULSON, James C.
 APPLICANT: JONES, S. Taran
 APPLICANT: SALDANHA, Jose W.
 APPLICANT: BENDIG, Mary M.
 TITLE OF INVENTION: Antibodies to P-Selectin and Their Uses
 NUMBER OF SEQUENCES: 45
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Townsend and Townsend Khourie and Crew
 STREET: One Market Plaza, Stewart Tower, Suite 2000
 CITY: San Francisco
 STATE: California
 COUNTRY: USA
 ZIP: 94105
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk

RESULT 14
 US-07-387-264-14
 Sequence 14, Application US/07987264
 Patent No. 6204366
 GENERAL INFORMATION:
 APPLICANT: VERHOEVEN, MARLINE ELISA
 TITLE OF INVENTION: SPECIFIC BINDING AGENTS
 NUMBER OF SEQUENCES: 62
 CORRESPONDENCE ADDRESS:

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OM protein - protein search, using SW model

Run on: March 17, 2006, 20:26:01 ; Search time 63 Seconds

(without alignments)
775.969 Million cell updates/sec

Title: US-09-724-406-2

Perfect score: 635

Sequence: 1 QIQLQQSGPBPVVKPGASVKG.....NYGNYWFAYWGGTQVTVSA 117

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA_Main:
1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:
2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:
3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:
4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:
5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:
6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep:
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	635	100.0	117	4 US-10-447-257-2	Sequence 2, Appli
2	635	100.0	117	5 US-10-496-628-2	Sequence 2, Appli
3	549	86.5	117	5 US-10-723-441-76	Sequence 76, Appli
4	549	86.5	117	5 US-10-895-135-54	Sequence 54, Appli
5	549	86.5	117	5 US-10-897-406-76	Sequence 76, Appli
6	548	86.3	116	5 US-10-700-632-74	Sequence 74, Appli
7	543.5	85.6	120	5 US-10-723-441-78	Sequence 78, Appli
8	544.5	85.6	120	5 US-10-895-135-59	Sequence 59, Appli
9	543.5	85.6	120	5 US-10-897-406-78	Sequence 78, Appli
10	539.5	85.0	119	5 US-10-700-632-75	Sequence 75, Appli
11	523	82.4	118	5 US-10-683-547-12	Sequence 12, Appli
12	503	79.1	139	4 US-10-097-73-13	Sequence 13, Appli
13	498.5	78.5	120	6 US-11-050-435-24	Sequence 24, Appli
14	498.5	78.5	124	6 US-11-050-435-3	Sequence 3, Appli
15	495	78.0	123	6 US-11-036-098-14	Sequence 14, Appli
16	495	78.0	532	6 US-11-036-098-18	Sequence 18, Appli
17	494.5	77.9	120	6 US-11-050-435-31	Sequence 31, Appli
18	493.5	77.7	243	4 US-10-097-558-2	Sequence 2, Appli
19	493.5	77.7	243	5 US-10-050-658-2	Sequence 2, Appli
20	492	77.5	138	2 US-08-779-784-31	Sequence 31, Appli
21	492	77.5	222	7 138 4 US-10-010-729-67	Sequence 67, Appli
22	490	77.2	113	4 US-10-030-2768-3	Sequence 3, Appli
23	490	77.2	113	6 US-11-061-956-3	Sequence 3, Appli
24	490	77.2	119	4 US-10-411-037-54	Sequence 54, Appli
25	490	77.2	119	4 US-10-411-026-54	Sequence 54, Appli
26	490	77.2	119	4 US-10-410-962-54	Sequence 54, Appli
27	490	77.2	119	4 US-10-411-049-54	Sequence 54, Appli

ALIGNMENTS

RESULT 1

US-10-447-257-2

; Sequence 2, Application US/10447257
; Publication No. US2004001819A1
; GENERAL INFORMATION:
; APPLICANT: Francisco et al.
; TITLE OF INVENTION: RECOMBINANT ANTI-CD30 ANTIBODIES AND USES THEREOF
; FILE REFERENCE: 9632-006
; CURRENT APPLICATION NUMBER: US/10/447,257
; CURRENT FILING DATE: 2003-05-28
; PRIOR APPLICATION NUMBER: US/09/724,406
; PRIOR FILING DATE: 2000-11-28
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ ID NO: 2
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Mus musculus

Query Match 100.0% Score 635; DB 4; Length 117;
Best Local Similarity 100.0% Pred. No. 1.2e-47; Mismatches 0; Indels 0; Gaps 0;
Matches 117; Conservative 0; ;
Qy 1 QIOLQQSGPBPVVKPGASVKG.....NYGNYWFAYWGGTQVTVSA 117
Db 1 QIOLQQSGPBPVVKPGASVKG.....NYGNYWFAYWGGTQVTVSA 117
; GENERAL INFORMATION:
; APPLICANT: Law, Che-Leung
; APPLICANT: Klubman, Kerry
; APPLICANT: Wahl, Alan
; APPLICANT: Senter, Peter
; APPLICANT: Doronina, Svetlana
; APPLICANT: Toki, Brian
; TITLE OF INVENTION: TREATMENT OF IMMUNOLOGICAL DISORDERS USING ANTI-CD30 ANTIBODIES
; FILE REFERENCE: 9632-077-999
; CURRENT APPLICATION NUMBER: US/10/496,628
; CURRENT FILING DATE: 2004-05-20
; PRIOR APPLICATION NUMBER: PCT/US02/37223

PRIOR FILING DATE: 2002-11-22
 PRIOR APPLICATION NUMBER: 60/331,750
 PRIOR FILING DATE: 2001-11-20
 NUMBER OF SEQ ID NOS: 33
 SOFTWARE: FASTSEQ for Windows Version 3.0
 SEQ ID NO: 2
 LENGTH: 117
 TYPE: PRT
 ORGANISM: Mus musculus
 US-10-895-135-54

Query Match 100.0%; Score 635; DB 5; Length 117;
 Best Local Similarity 100.0%; Pred. No. 1.2e-47;
 Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QIQLQOSGPVEVKPGASVKISCKASGTTFTDYYITWYKQPKQGLEWIGWYPGSGNTKY 60
 Db 1 QIQLQOSGPVEVKPGASVKISCKASGTTFTDYYITWYKQPKQGLEWIGWYPGSGNTKY 60
 Qy 61 NEKFKGKATLTVDTSSSTAFLQSLTSEDATAVFCANYGNYWEATWQGQTQTVSA 117
 Db 61 NEKFKGKATLTVDTSSSTAFLQSLTSEDATAVFCANYGNYWEATWQGQTQTVSA 117

RESULT 3
 US-10-729-441-76
 Sequence 76, Application US/10729441
 Publication No. US2004025307A1
 GENERAL INFORMATION:
 APPLICANT: Immunogen, Inc.
 TITLE OF INVENTION: ANTI-IGF-I RECEPTOR ANTIBODY
 CURRENT APPLICATION NUMBER: US/10/729,441
 CURRENT FILING DATE: 2003-12-08
 PRIOR APPLICATION NUMBER: 10/170,390
 PRIOR FILING DATE: 2002-06-14
 NUMBER OF SEQ ID NOS: 96
 SOFTWARE: PatentIn version 3.2
 SEQ ID NO: 76
 LENGTH: 117
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: synthetic antibody structure
 US-10-729-441-76

Query Match 86.5%; Score 549; DB 5; Length 117;
 Best Local Similarity 86.3%; Pred. No. 3.7e-40;
 Matches 101; Conservative 8; Mismatches 8; Indels 0; Gaps 0;

Qy 1 QIQLQOSGPVEVKPGASVKISCKASGTTFTDYYITWYKQPKQGLEWIGWYPGSGNTKY 60
 Db 1 QIQLQOSGPVEVKPGASVKISCKASGTTFTDYYITWYKQPKQGLEWIGWYPGSGNTKY 60
 Qy 61 NEKFKGKATLTVDTSSSTAFLQSLTSEDATAVFCANYGNYWEATWQGQTQTVSA 117
 Db 61 NEKFKGKATLTVDTSSSTAFLQSLTSEDATAVFCANYGNYWEATWQGQTQTVSA 117

RESULT 4
 US-10-895-135-54
 Sequence 54, Application US/10895135
 Publication No. US20050123549A1
 GENERAL INFORMATION:
 APPLICANT: Immunogen, Inc.
 APPLICANT: PAYNE, Gillian
 APPLICANT: CHUN, Phillip
 APPLICANT: TAVARES, Daniel
 TITLE OF INVENTION: A CAR ANTIGEN-SPECIFIC CYTOTOXIC CONJUGATE AND METHODS OF USING
 TITLE OF INVENTION: THE SAME
 FILE REFERENCE: A8621
 CURRENT APPLICATION NUMBER: US/10/895,135
 CURRENT FILING DATE: 2004-07-21

RESULT 5
 US-10-897-406-76
 Sequence 76, Application US/10897406
 Publication No. US20050186203A1
 GENERAL INFORMATION:
 APPLICANT: Immunogen, Inc.
 TITLE OF INVENTION: ANTI-IGF-I RECEPTOR ANTIBODY
 FILE REFERENCE: A8338
 CURRENT FILING DATE: 2004-07-23
 PRIOR APPLICATION NUMBER: US/10/897,406
 PRIOR FILING DATE: 2002-06-14
 NUMBER OF SEQ ID NOS: 96
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO: 76
 LENGTH: 117
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: synthetic antibody structure
 US-10-897-406-76

Query Match 100.0%; Score 635; DB 5; Length 117;
 Best Local Similarity 86.3%; Pred. No. 3.7e-40;
 Matches 101; Conservative 8; Mismatches 8; Indels 0; Gaps 0;

Qy 1 QIQLQOSGPVEVKPGASVKISCKASGTTFTDYYITWYKQPKQGLEWIGWYPGSGNTKY 60
 Db 1 QIQLQOSGPVEVKPGASVKISCKASGTTFTDYYITWYKQPKQGLEWIGWYPGSGNTKY 60
 Qy 61 NEKFKGKATLTVDTSSSTAFLQSLTSEDATAVFCANYGNYWEATWQGQTQTVSA 117
 Db 61 NEKFKGKATLTVDTSSSTAFLQSLTSEDATAVFCANYGNYWEATWQGQTQTVSA 117

RESULT 6
 US-10-700-632-74
 Sequence 74, Application US/10700632
 Publication No. US20050118183A1
 GENERAL INFORMATION:
 APPLICANT: Immunogen, Inc.
 TITLE OF INVENTION: ANTI-CD3 ANTIBODIES AND METHODS FOR TREATMENT OF ACUTE MYELOID LEUKEMIA USING THE SAME
 FILE REFERENCE: A8427
 CURRENT FILING DATE: 2003-11-05
 PRIOR APPLICATION NUMBER: US/10/700,632
 PRIOR FILING DATE: 2002-11-07
 NUMBER OF SEQ ID NOS: 94
 SOFTWARE: PatentIn version 3.2

SEQ ID NO 74
 LENGTH: 116
 TYPE: PRT
 ORGANISM: *Mus musculus*
 US-10-700-632-74

Query Match Score 548; DB 5; Length 116;
 Best Local Similarity 87.1%; Pred. No. 4. 4e-40;
 Matches 101; Conservative 7; Mismatches 8; Indels 0; Gaps 0;

Qy 1 QILOQQSPEVKPGASKVSKASKASGTTFTDYYITWVKQKPGLEWIGWYPGSGNTKY 60
 Db 1 QILOQQSPEVKPGASKVSKASKASGTTFTDYYITWVKQKPGLEWIGWYPGSGNTKY 60

Qy 61 NEKFKGKATLTVDTSSSTAFAQMQLSSITSEDTAVYFCANQNYWPAIGQGQSTQVTS 116
 Db 61 NEKFKGKATLTVDTSSSTAFAQMQLSSITSEDTAVYFCANQNYWPAIGQGQSTQVTS 116

RESULT 7
 US-10-729-441-78
 Sequence 78, Application US/10729441
 Publication No. US20040265307A1
 GENERAL INFORMATION:
 APPLICANT: Immunogen, Inc.
 TITLE OF INVENTION: ANTI-IGF-1 RECEPTOR ANTIBODY
 FILE REFERENCE: A6689
 CURRENT APPLICATION NUMBER: US/10/897,406
 CURRENT FILING DATE: 2004-07-23
 PRIORITY NUMBER: US/10/170,390
 PRIOR FILING DATE: 2002-06-14
 NUMBER OF SEQ ID NOS: 96
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO 78
 LENGTH: 120
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: synthetic antibody structure
 US-10-729-441-78

Query Match Score 543.5; DB 5; Length 120;
 Best Local Similarity 87.5%; Pred. No. 1.1e-39;
 Matches 105; Conservative 5; Mismatches 7; Indels 3; Gaps 2;

Qy 1 QILOQQSPEVKPGASKVSKASKASGTTFTDYYITWVKQKPGLEWIGWYPGSGNTKY 60
 Db 1 QILOQQSPEVKPGASKVSKASKASGTTFTDYYITWVKQKPGLEWIGWYPGSGNTKY 60

Qy 61 NEKFKGKATLTVDTSSSTAFAQMQLSSITSEDTAVYFCANQNYWPAIGQGQSTQVTS 117
 Db 61 NEKFKGKATLTVDTSSSTAFAQMQLSSITSEDTAVYFCANQNYWPAIGQGQSTQVTS 120

RESULT 8
 US-10-895-135-59
 Sequence 59, Application US/10895135
 Publication No. US20050123549A1
 GENERAL INFORMATION:
 APPLICANT: Immunogen, Inc.
 PAYNE, Gillian
 CHUN, Phillip
 TAVARES, Daniel
 TITLE OF INVENTION: THE SAME
 FILE REFERENCE: A8621
 CURRENT APPLICATION NUMBER: US/10/895,135
 CURRENT FILING DATE: 2004-07-21
 PRIORITY NUMBER: 60/488,447
 NUMBER OF SEQ ID NOS: 63
 SOFTWARE: PatentIn version 3.2
 SEQ ID NO 59

RESULT 9
 US-10-897-406-78
 Sequence 78, Application US/10897406
 Publication No. US20050186203A1
 GENERAL INFORMATION:
 APPLICANT: Immunogen, Inc.
 TITLE OF INVENTION: ANTI-IGF-1 RECEPTOR ANTIBODY
 FILE REFERENCE: A8338
 CURRENT APPLICATION NUMBER: US/10/897,406
 CURRENT FILING DATE: 2004-07-23
 PRIORITY NUMBER: US/10/170,390
 PRIOR FILING DATE: 2002-06-14
 NUMBER OF SEQ ID NOS: 96
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO 78
 LENGTH: 120
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: synthetic antibody structure
 US-10-897-406-78

Query Match Score 543.5; DB 5; Length 120;
 Best Local Similarity 87.5%; Pred. No. 1.1e-39;
 Matches 105; Conservative 5; Mismatches 7; Indels 3; Gaps 2;

Qy 1 QILOQQSPEVKPGASKVSKASKASGTTFTDYYITWVKQKPGLEWIGWYPGSGNTKY 60
 Db 1 QILOQQSPEVKPGASKVSKASKASGTTFTDYYITWVKQKPGLEWIGWYPGSGNTKY 60

Qy 61 NEKFKGKATLTVDTSSSTAFAQMQLSSITSEDTAVYFCANQNYWPAIGQGQSTQVTS 117
 Db 61 NEKFKGKATLTVDTSSSTAFAQMQLSSITSEDTAVYFCANQNYWPAIGQGQSTQVTS 120

RESULT 10
 US-10-700-632-75
 Sequence 75, Application US/10700632
 Publication No. US2005011818A1
 GENERAL INFORMATION:
 APPLICANT: Immunogen, Inc.
 TITLE OF INVENTION: ANTI-CD3 ANTIBODIES AND METHODS FOR TREATMENT OF ACUTE MYELOID LEUKEMIA USING THE SAME
 FILE REFERENCE: A8427
 CURRENT APPLICATION NUMBER: US/10/700,632
 CURRENT FILING DATE: 2003-11-05
 PRIORITY NUMBER: US 60/424,332
 PRIOR FILING DATE: 2002-11-07
 NUMBER OF SEQ ID NOS: 94
 SOFTWARE: PatentIn version 3.2
 SEQ ID NO 75
 LENGTH: 119
 TYPE: PRT
 ORGANISM: *Mus musculus*
 US-10-700-632-75

Query Match 85.0%; Score 539.5; DB 5; Length 119;
 Best Local Similarity 87.4%; Pred. No. 2.5e-39;
 Matches 104; Conservative 5; Mismatches 7; Indels 3; Gaps 2;
 SEQ ID NO: 1 QIQLOQSGPPEVKPGASVKISCKASGYTFDYITIWVKOKPQGGLEWIGWYPGSGNTKY 60

Qy 1 QIQLOQSGPPEVKPGASVKISCKASGYTFDYITIWVKOKPQGGLEWIGWYPGSGNTKY 60
 Ddb 1 QIQLOQSGPPEVKPGASVKISCKASGYTFDYITIWVKOKPQGGLEWIGWYPGSGNTKY 60

Qy 61 NEKPKGKATLTVDTSSSTAQMQLSSLTSEDAYFCANYGN--YWFAYWGOGTQTVTSA 117
 Ddb 61 NEKPKGKATLTVDTSSSTAQMQLSSLTSEDAYFCANYGN--YWFAYWGOGTQTVTSA 117

Qy 61 NEKPKGKATLTVDTSSSTAQMQLSSLTSEDAYFCANYWPA-NGNYWPA-NGQGTQTVS 116
 Ddb 61 NEKPKGKATLTVDTSSSTAQMQLSSLTSEDAYFCANYWPA-NGNYWPA-NGQGTQTVS 116

RESULT 13
 US-11-050-435-24
 Sequence 24, Application US/11050435
 Publication No. US20050226883A1
 GENERAL INFORMATION:
 APPLICANT: Houston, J.
 APPLICANT: Houston, L.
 APPLICANT: Ring, D.
 APPLICANT: Oppermann, H.
 TITLE OF INVENTION: BIOSYNTHETIC BINDING PROTEINS FOR IMMUNO-TARGETING
 FILE REFERENCE: IBT-P1-130
 CURRENT APPLICATION NUMBER: US/10/683,547
 CURRENT FILING DATE: 2003-10-10
 PRIOR APPLICATION NUMBER: US/09/558,741
 PRIOR FILING DATE: 2000-04-26
 PRIOR APPLICATION NUMBER: 07/831,967
 PRIOR FILING DATE: 1992-02-06
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO 12
 TYPE: PRT
 ORGANISM: Mus musculus
 LENGTH: 118
 US-10-683-547-12
 Sequence 12, Application US/10683547
 Publication No. US20050226883A1
 GENERAL INFORMATION:
 APPLICANT: Houston, J.
 APPLICANT: Houston, L.
 APPLICANT: Ring, D.
 APPLICANT: Oppermann, H.
 TITLE OF INVENTION: BIOSYNTHETIC BINDING PROTEINS FOR IMMUNO-TARGETING
 FILE REFERENCE: IBT-P1-130
 CURRENT APPLICATION NUMBER: US/10/683,547
 CURRENT FILING DATE: 2003-10-10
 PRIOR APPLICATION NUMBER: US/09/558,741
 PRIOR FILING DATE: 2000-04-26
 PRIOR APPLICATION NUMBER: 07/831,967
 PRIOR FILING DATE: 1992-02-06
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO 12
 TYPE: PRT
 ORGANISM: Mus musculus
 LENGTH: 118
 US-10-683-547-12
 Sequence 12, Application US/10683547
 Publication No. US20050226883A1
 GENERAL INFORMATION:
 APPLICANT: Houston, J.
 APPLICANT: Houston, L.
 APPLICANT: Ring, D.
 APPLICANT: Oppermann, H.
 TITLE OF INVENTION: BIOSYNTHETIC BINDING PROTEINS FOR IMMUNO-TARGETING
 FILE REFERENCE: IBT-P1-130
 CURRENT APPLICATION NUMBER: US/10/683,547
 CURRENT FILING DATE: 2003-10-10
 PRIOR APPLICATION NUMBER: US/09/558,741
 PRIOR FILING DATE: 2000-04-26
 PRIOR APPLICATION NUMBER: 07/831,967
 PRIOR FILING DATE: 1992-02-06
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO 12
 TYPE: PRT
 ORGANISM: Mus musculus
 LENGTH: 118
 US-11-050-435-24
 Sequence 24, Application US/11050435
 Publication No. US20050226883A1
 GENERAL INFORMATION:
 APPLICANT: GEMMELL, JACK
 APPLICANT: AVERBACK, PAUL
 TITLE OF INVENTION: HUMANIZED ANTIBODY
 FILE REFERENCE: 59003 0.00046
 CURRENT APPLICATION NUMBER: US/11/050,435
 CURRENT FILING DATE: 2005-02-04
 PRIOR APPLICATION NUMBER: 60/541,944
 PRIOR FILING DATE: 2004-02-04
 NUMBER OF SEQ ID NOS: 49
 SEQ ID NO 24
 SOFTWARE: PatentIn Ver. 3.3
 TYPE: PRT
 ORGANISM: Mus sp.
 LENGTH: 120
 US-11-050-435-24
 Query Match 78.5%; Score 498.5; DB 6; Length 120;
 Best Local Similarity 76.7%; Pred. No. 9.2e-36;
 Matches 92; Conservative 12; Mismatches 13; Indels 3; Gaps 1;
 SEQ ID NO: 1 QIQLOQSGPPEVKPGASVKISCKASGYTFDYITIWVKOKPQGGLEWIGWYPGSGNTKY 60

Qy 1 QIQLOQSGPPEVKPGASVKISCKASGYTFDYITIWVKOKPQGGLEWIGWYPGSGNTKY 60
 Ddb 1 QIQLOQSGPPEVKPGASVKISCKASGYTFDYITIWVKOKPQGGLEWIGWYPGSGNTKY 60

Qy 61 NEKPKGKATLTVDTSSSTAQMQLSSLTSEDAYFCANYGN--YWFAYWGOGTQTVTSA 117
 Ddb 61 NEKPKGKATLTVDTSSSTAQMQLSSLTSEDAYFCANYGN--YWFAYWGOGTQTVTSA 117

RESULT 14
 US-11-050-435-3
 Sequence 3, Application US/11050435
 Publication No. US20050226883A1
 GENERAL INFORMATION:
 APPLICANT: GEMMELL, JACK
 APPLICANT: AVERBACK, PAUL
 APPLICANT: GEMMELL, JACK
 TITLE OF INVENTION: HUMANIZED ANTIBODY
 FILE REFERENCE: 59003 0.00046
 CURRENT APPLICATION NUMBER: US/11/050,435
 CURRENT FILING DATE: 2005-02-04
 PRIOR APPLICATION NUMBER: 60/541,944
 PRIOR FILING DATE: 2004-02-04
 NUMBER OF SEQ ID NOS: 49
 SEQ ID NO 3
 SOFTWARE: PatentIn Ver. 3.3
 TYPE: PRT
 ORGANISM: Mus sp.
 LENGTH: 124
 US-11-050-435-3
 Query Match 78.5%; Score 498.5; DB 6; Length 124;
 Best Local Similarity 75.8%; Pred. No. 9.5e-36;
 Matches 91; Conservative 14; Mismatches 12; Indels 3; Gaps 1;
 SEQ ID NO: 1 QIQLOQSGPPEVKPGASVKISCKASGYTFDYITIWVKOKPQGGLEWIGWYPGSGNTKY 60

Qy 1 QIQLOQSGPPEVKPGASVKISCKASGYTFDYITIWVKOKPQGGLEWIGWYPGSGNTKY 60
 Ddb 1 QIQLOQSGPPEVKPGASVKISCKASGYTFDYITIWVKOKPQGGLEWIGWYPGSGNTKY 60

RESULT 15
 US-10-006-772-13
 Sequence 13, Application US/10006773
 Publication No. US20050132983A1
 GENERAL INFORMATION:
 APPLICANT: Jungmans, Richard P.
 TITLE OF INVENTION: Antibodies as Chimeric Effector Cell Receptors Against Tumor Antigen
 FILE REFERENCE: 003
 CURRENT APPLICATION NUMBER: US/10/006,773
 CURRENT FILING DATE: 2001-12-10
 PRIOR APPLICATION NUMBER: 60/250,089
 PRIOR FILING DATE: 2000-11-30
 NUMBER OF SEQ ID NOS: 19
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO 13
 LENGTH: 139
 TYPE: PRT
 ORGANISM: Mus sp.
 LENGTH: 139
 US-10-006-772-13
 Query Match 79.1%; Score 502.5; DB 4; Length 139;

Db 5 QVQLOQSGSPDLYKPGASVRISCKASGYTFAGHIVWVKQERGRGLEWIGIIFPGKVNTKY 64
 Qy 61 NEKPKGKATLITDTSSTAYNQLSSLTSEDPAVYFCANYG--NNTMPAYNGQSTQVTVSA 117
 Db 65 NEKPKGKATLITDADKSSTAYNQLSSLTSEDPAVYFCARVGDYPCYFDTWQGQRTLTVSS 124

RESUL.T 15
 US-11-036-098-14
 ; Sequence 14, Application US/11036098
 ; Publication No. US20050163770A1
 ; GENERAL INFORMATION
 ; APPLICANT: Connex GmbH
 ; TITLE OF INVENTION: Immunological reagent specifically interacting with the
 ; TITLE OF INVENTION: extracellular domain of the human zeta chain
 ; FILE REFERENCE: C1368PCT
 ; CURRENT APPLICATION NUMBER: US/11/036,098
 ; CURRENT FILING DATE: 2005-01-18
 ; PRIOR APPLICATION NUMBER: US/09/743,482
 ; PRIOR FILING DATE: 2001-02-28
 ; PRIOR APPLICATION NUMBER: EP 98 11 2867.1
 ; PRIOR FILING DATE: 1998-07-10
 ; NUMBER OF SEQ ID NOS: 18
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 14
 ; LENGTH: 123
 ; TYPE: PRT
 ; ORGANISM: *Battus norvegicus*
 US-11-036-098-14

Query Match 78.0%; Score 495; DB 6; Length 123;
 Best Local Similarity 74.8%; Pred. No. 1.9e-35;
 Matches 92; Conservative 13; Mismatches 12; Indels 6; Gaps 1;
 Qy 1 QIOLQOSGPETVYKPGASVKSCKASGYTFDYYITWVKQERGRGLEWIGIIFPGKVNTKY 60
 Db 1 QVQLOQSGSPDLYKPGASVKSCKASGYTFDYYITWVKQERGRGLEWIGIIFPGKVNTKY 60
 Qy 61 NEKPKGKATLITDTSSTAYNQLSSLTSEDPAVYFCANYG----PAWGGCTQVTVI 114
 Db 61 NEKPKGKATLITDADKSSTAYNQLSSLTSEDPAVYFCARVGDYPCYFDTWQGQRTLTVSS 120

Qy 115 VSA 117
 Db 121 VSS 123

Search completed: March 17, 2006, 20:27:12
 Job time : 64 secs

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OM protein - protein search, using sw model

RunOn: March 17, 2006, 20:26:16 ; Search time 23 Seconds (without alignments)

145.603 Million cell updates/sec

Title: US-09-724-406-2

Perfect score: 635

Sequence: 1 QIQLQQSGBREVVKPGASVKKI.....NYGNYWWAYNGGQTQVTVSA 117

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 169630 seqs, 28622889 residues

Total number of hits satisfying chosen parameters: 169630

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100%

Listing First 45 summaries

Database : Published Applications AA_New:
 1: /cgmn_6/ptodata/1/pubpaa/US08 NEW PUB.pep:
 2: /cgmn_6/ptodata/1/pubpaa/US06 NEW PUB.pep:
 3: /cgmn_6/ptodata/1/pubpaa/US07 NEW PUB.pep:
 4: /cgmn_2_6/ptodata/1/pubpaa/US07 NEW PUB.pep:
 5: /cgmn_6/ptodata/1/pubpaa/US05 NEW PUB.pep:
 6: /cgmn_5_6/ptodata/1/pubpaa/US10 NEW PUB.pep:
 7: /cgmn_6/ptodata/1/pubpaa/US11 NEW PUB.pep:
 8: /cgmn_6/ptodata/1/pubpaa/US60 NEW PUB.pep:
 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	635	100.0	117	7 US-11-149-943-61	Sequence 61, App1
2	571	100.0	117	7 US-11-004-590-119	Sequence 119, App
3	571	89.9	117	7 US-11-004-590-221	Sequence 221, App
4	567	89.3	117	7 US-11-004-590-166	Sequence 166, App
5	567	89.3	117	7 US-11-004-590-181	Sequence 181, App
6	563	88.7	117	7 US-11-004-590-168	Sequence 168, App
7	563	88.7	117	7 US-11-004-590-170	Sequence 170, App
8	560	88.2	117	7 US-11-004-590-169	Sequence 169, App
9	560	88.2	117	7 US-11-004-590-184	Sequence 184, App
10	559	88.0	117	7 US-11-004-590-165	Sequence 165, App
11	559	88.0	117	7 US-11-004-590-178	Sequence 159, App
12	559	87.9	117	7 US-11-004-590-180	Sequence 180, App
13	558	87.9	117	7 US-11-004-590-173	Sequence 173, App
14	557	87.7	117	7 US-11-004-590-177	Sequence 177, App
15	557	87.7	117	7 US-11-004-590-207	Sequence 207, App
16	556	87.6	117	7 US-11-004-590-162	Sequence 162, App
17	556	87.6	117	7 US-11-004-590-179	Sequence 179, App
18	555	87.4	117	7 US-11-004-590-167	Sequence 167, App
19	555	87.4	117	7 US-11-004-590-189	Sequence 189, App
20	553	87.1	117	7 US-11-004-590-163	Sequence 163, App
21	553	87.1	117	7 US-11-004-590-172	Sequence 172, App
22	553	87.1	117	7 US-11-004-590-204	Sequence 204, App
23	553	87.1	117	7 US-11-004-590-223	Sequence 223, App
24	552	86.9	117	7 US-11-004-590-176	Sequence 176, App
25	552	86.9	117	7 US-11-004-590-183	Sequence 183, App

ALIGMENTS

RESULT 1
 US-11-149-943-61
 ; Sequence 61, Application US/11149943
 ; Publication No. US0060003412A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Chamberlain, Aaron, Keith
 ; DESJARLAIS, John, R.
 ; TITLE OF INVENTION: PROTEIN ENGINEERING WITH ANALOGOUS CONTACT ENVIRONMENTS
 ; FILE REFERENCE: 185837/US/3
 ; CURRENT APPLICATION NUMBER: US/11/149,943
 ; CURRENT FILING DATE: 2005-06-09
 ; PRIOR APPLICATION NUMBER: US 60/602,566
 ; PRIOR FILING DATE: 2004-08-17
 ; SEQ ID NO: 61
 ; PRIORITY NUMBER: US 11/008,647
 ; LENGTH: 117
 ; TYPE: PT
 ; ORGANISM: Homo sapiens
 US-11-149-943-61

Query Match 100.0%; Score 635; DB 7; Length 117;
 Best Local Similarity 100.0%; Pred. No. 2.5e-4;
 Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QIOLQQSGPENVVKPGASVKKISCKASGIFTDDYITWWKQPKGGLEIIGWIVPGSGNTKY 60
 Db 1 QIOLQQSGPENVVKPGASVKKISCKASGIFTDDYITWWKQPKGGLEIIGWIVPGSGNTKY 60

Qy 61 NEKPKGKATLTVTDSSSTAFMQLSSITSEDTAVYFCANYGNWFAVNGQGTQTVSA 117
 Db 61 NEKPKGKATLTVTDSSSTAFMQLSSITSEDTAVYFCANYGNWFAVNGQGTQTVSA 117

RESULT 2
 US-11-004-590-119
 ; Sequence 119, Application US/11004590
 ; Publication No. US0060008883A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Lazar, Gregory Alan
 ; DESJARLAIS, John, R.
 ; HAMMOND, Phillip W.
 ; APPARTANT: Hammond, Phillip W.
 ; TITLE OF INVENTION: METHODS OF GENERATING VARIANT PROTEINS WITH INCREASED HOST STRING
 ; TITLE OF INVENTION: METHODS OF GENERATING VARIANT PROTEINS THEREOF
 ; FILE REFERENCE: 185832/US/5
 ; CURRENT APPLICATION NUMBER: US/11/004-590

RESULT 3
 CURRENT FILING DATE: 2004-12-03
 PRIOR APPLICATION NUMBER: US 60/527,167
 PRIOR FILING DATE: 2003-12-04
 PRICE: APPLICATION NUMBER: US 60/581,613
 PRIOR FILING DATE: 2004-06-21
 PRIOR APPLICATION NUMBER: US 60/601,665
 PRIOR FILING DATE: 2004-08-13
 PRIOR APPLICATION NUMBER: US 60/619,483
 PRIOR FILING DATE: 2004-10-14
 NUMBER OF SEQ ID NOS: 458
 SEQ ID NO 119
 LENGTH: 117
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-11-004-590-119

Query Match 100.0%; Score 635; DB 7; Length 117;
 Best Local Similarity 100.0%; Pred. No. 2.5e-44;
 Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QIQLQSGPEVKPGASVKISCKASGYTFTDYITWVKQKPGQGLEWIGIYPGSGNTKY 60
 Db 1 QIQLQSGPEVKPGASVKISCKASGYTFTDYITWVKQKPGQGLEWIGIYPGSGNTKY 60
 Qy 61 NEKPKGKATLTVDTSSATMQLSSLTSEDAVYFCANYGNYWPAWQGQTQVTVSA 117
 Db 61 NEKPKGKATLTVDTSSATMQLSSLTSEDAVYFCANYGNYWPAWQGQTQVTVSA 117

RESULT 3
 CURRENT FILING DATE: 2004-12-03
 PRIOR APPLICATION NUMBER: US 60/527,167
 PRIOR FILING DATE: 2003-12-04
 PRICE: APPLICATION NUMBER: US 60/581,613
 PRIOR FILING DATE: 2004-06-21
 PRIOR APPLICATION NUMBER: US 60/601,665
 PRIOR FILING DATE: 2004-08-13
 PRIOR APPLICATION NUMBER: US 60/619,483
 PRIOR FILING DATE: 2004-10-14
 NUMBER OF SEQ ID NOS: 458
 SEQ ID NO 221
 LENGTH: 117
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-11-004-590-221

Query Match 100.0%; Score 635; DB 7; Length 117;
 Best Local Similarity 100.0%; Pred. No. 2.5e-44;
 Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QIQLQSGPEVKPGASVKISCKASGYTFTDYITWVKQKPGQGLEWIGIYPGSGNTKY 60
 Db 1 QIQLQSGPEVKPGASVKISCKASGYTFTDYITWVKQKPGQGLEWIGIYPGSGNTKY 60

RESULT 4
 CURRENT FILING DATE: 2004-12-03
 PRIOR APPLICATION NUMBER: US 60/527,167
 PRIOR FILING DATE: 2003-12-04
 PRICE: APPLICATION NUMBER: US 60/581,613
 PRIOR FILING DATE: 2004-06-21
 PRIOR APPLICATION NUMBER: US 60/601,665
 PRIOR FILING DATE: 2004-08-13
 PRIOR APPLICATION NUMBER: US 60/619,483
 PRIOR FILING DATE: 2004-10-14
 NUMBER OF SEQ ID NOS: 458
 SEQ ID NO 117
 LENGTH: 117
 TYPE: PRT
 ORGANISM: Artificial
 OTHER INFORMATION: Synthetic
 US-11-004-590-117

Query Match 89.9%; Score 571; DB 7; Length 117;
 Best Local Similarity 86.3%; Pred. No. 3.1e-39;
 Matches 101; Conservative 10; Mismatches 6; Indels 6; Gaps 0;

Qy 1 QIQLQSGPEVKPGASVKISCKASGYTFTDYITWVKQKPGQGLEWIGIYPGSGNTKY 60
 Db 1 QIQLQSGPEVKPGASVKISCKASGYTFTDYITWVKQKPGQGLEWIGIYPGSGNTKY 60
 Qy 61 NEKPKGKATLTVDTSSATMQLSSLTSEDAVYFCANYGNYWPAWQGQTQVTVSA 117
 Db 61 NEKPKGKATLTVDTSSATMQLSSLTSEDAVYFCANYGNYWPAWQGQTQVTVSA 117

RESULT 4
 CURRENT FILING DATE: 2004-12-03
 PRIOR APPLICATION NUMBER: US 60/527,167
 PRIOR FILING DATE: 2003-12-04
 PRICE: APPLICATION NUMBER: US 60/581,613
 PRIOR FILING DATE: 2004-06-21
 PRIOR APPLICATION NUMBER: US 60/601,665
 PRIOR FILING DATE: 2004-08-13
 PRIOR APPLICATION NUMBER: US 60/619,483
 PRIOR FILING DATE: 2004-10-14
 NUMBER OF SEQ ID NOS: 458
 SEQ ID NO 181
 LENGTH: 117
 TYPE: PRT
 ORGANISM: Artificial
 OTHER INFORMATION: Synthetic
 US-11-004-590-181

Query Match 89.3%; Score 567; DB 7; Length 117;
 Best Local Similarity 85.5%; Pred. No. 6.4e-39; Indels 0; Gaps 0;
 Matches 100; Conservative 10; Mismatches 7; Software: Patent in version 3.3
 SEQ ID NO: 168

Qy 1 QILOQSGPETYKPGASVKSCKASGTYPTDYYITWYKQKPCQGLEWIGWYYPGSGNTKY 60
 Db. 1 QIQLVQSGPETYKPGASVKSCKASGTYPTDYYITWYQKPCQGLEWIGWYYPGSGNTKY 60
 Qy 61 NEKPKGKATLTDTSSTAFMQLSSLTSEDAVYFCANYGTYWFAWQGQTQVYSA 117
 Db. 61 NEKPKGKATLTDTSSTAFMQLSSLTSEDAVYFCANYGTYWFAWQGQTQVYSA 117

Qy 61 NEKPKGKATLTDTSSTAFMQLSSLTSEDAVYFCANYGTYWFAWQGQTQVYSA 117
 Db. 61 NEKPKGKATLTDTSSTAFMQLSSLTSEDAVYFCANYGTYWFAWQGQTQVYSA 117

OTHER INFORMATION: Synthetic
 US-11-004-590-168

RESULT 6
 Sequence 168, Application US/1104590
 Publication No. US2006000883A1
 GENERAL INFORMATION:
 APPLICANT: Lazar, Gregory Alan
 APPLICANT: Desjarlais, John R.
 APPLICANT: Hammond, Phillip W.
 APPLICANT: Ham, Phillip W.
 TITLE OF INVENTION: METHODS OF GENERATING VARIANT PROTEINS WITH INCREASED HOST STRING
 TITLE OF INVENTION: CONTENT AND COMPOSITIONS THEREOF
 FILE REFERENCE: 165832/US/5
 CURRENT APPLICATION NUMBER: US/11/004,590
 CURRENT FILING DATE: 2004-12-03
 PRIOR APPLICATION NUMBER: US/09/527,167
 PRIOR FILING DATE: 2003-12-04
 PRIOR APPLICATION NUMBER: US 60/581,613
 PRIOR FILING DATE: 2004-06-21
 PRIOR APPLICATION NUMBER: US 60/601,665
 PRIOR FILING DATE: 2004-08-13
 PRIOR APPLICATION NUMBER: US 60/619,483
 PRIOR FILING DATE: 2004-10-14
 NUMBER OF SEQ ID NOS: 458
 SOFTWARE: Patent in version 3.3
 SEQ ID NO: 168
 LENGTH: 117
 TYPE: PRT
 ORGANISM: Artificial
 FEATURE:
 OTHER INFORMATION: Synthetic
 US-11-004-590-168

Query Match 88.7%; Score 563; DB 7; Length 117;
 Best Local Similarity 85.5%; Pred. No. 1.3e-38; Indels 0; Gaps 0;
 Matches 100; Conservative 10; Mismatches 7; Software: Patent in version 3.3
 SEQ ID NO: 169

Qy 1 QILOQSGPETYKPGASVKSCKASGTYPTDYYITWYKQKPCQGLEWIGWYYPGSGNTKY 60
 Db. 1 QIQLVQSGPETYKPGASVKSCKASGTYPTDYYITWYQKPCQGLEWIGWYYPGSGNTKY 60
 Qy 61 NEKPKGKATLTDTSSTAFMQLSSLTSEDAVYFCANYGTYWFAWQGQTQVYSA 117
 Db. 61 NEKPKGKATLTDTSSTAFMQLSSLTSEDAVYFCANYGTYWFAWQGQTQVYSA 117

Qy 61 NEKPKGKATLTDTSSTAFMQLSSLTSEDAVYFCANYGTYWFAWQGQTQVYSA 117
 Db. 61 NEKPKGKATLTDTSSTAFMQLSSLTSEDAVYFCANYGTYWFAWQGQTQVYSA 117

OTHER INFORMATION: Synthetic
 US-11-004-590-169

RESULT 7
 Sequence 170, Application US/1104590
 Publication No. US2006000883A1
 GENERAL INFORMATION:
 APPLICANT: Lazar, Gregory Alan
 APPLICANT: Desjarlais, John R.
 APPLICANT: Hammond, Phillip W.
 TITLE OF INVENTION: METHODS OF GENERATING VARIANT PROTEINS WITH INCREASED HOST STRING
 TITLE OF INVENTION: CONTENT AND COMPOSITIONS THEREOF
 FILE REFERENCE: 165832/US/5
 CURRENT FILING DATE: 2004-12-03
 PRIOR APPLICATION NUMBER: US/11/004,590
 CURRENT FILING DATE: 2003-12-04
 PRIOR APPLICATION NUMBER: US 60/527,167
 PRIOR FILING DATE: 2004-10-14
 NUMBER OF SEQ ID NOS: 458
 NUMBER OF SEQ ID NOS: 458
 PRIOR APPLICATION NUMBER: US 60/581,613
 PRIOR FILING DATE: 2004-06-21
 PRIOR APPLICATION NUMBER: US 60/601,665
 PRIOR FILING DATE: 2004-08-13
 PRIOR APPLICATION NUMBER: US 60/619,483
 PRIOR FILING DATE: 2004-10-14
 NUMBER OF SEQ ID NOS: 458
 SEQ ID NO: 169
 LENGTH: 117
 TYPE: PRT
 ORGANISM: Artificial
 FEATURE:
 OTHER INFORMATION: Synthetic
 US-11-004-590-169

Query Match 88.2%; Score 560; DB 7; Length 117;
 Best Local Similarity 84.6%; Pred. No. 2.3e-38; Indels 0; Gaps 0;
 Matches 99; Conservative 11; Mismatches 7; Software: Patent in version 3.3
 SEQ ID NO: 169

Qy 1 QILOQSGPETYKPGASVKSCKASGTYPTDYYITWYKQKPCQGLEWIGWYYPGSGNTKY 60
 Db. 1 QIQLVQSGPETYKPGASVKSCKASGTYPTDYYITWYQKPCQGLEWIGWYYPGSGNTKY 60
 Qy 61 NEKPKGKATLTDTSSTAFMQLSSLTSEDAVYFCANYGTYWFAWQGQTQVYSA 117
 Db. 61 NEKPKGKATLTDTSSTAFMQLSSLTSEDAVYFCANYGTYWFAWQGQTQVYSA 117

Qy 61 NEKPKGKATLTDTSSTAFMQLSSLTSEDAVYFCANYGTYWFAWQGQTQVYSA 117
 Db. 61 NEKPKGKATLTDTSSTAFMQLSSLTSEDAVYFCANYGTYWFAWQGQTQVYSA 117

OTHER INFORMATION: Synthetic
 US-11-004-590-169

US-11-004-590-165
RESULT 9
Sequence 184, Application US/11004590
Publication No. US20060008883A1
GENERAL INFORMATION:
APPLICANT: Lazar, Gregory Alan
Desjariais, John R.
ATTORNEY: Hammond, Phillip W.
TITLE OF INVENTION: METHODS OF GENERATING VARIANT PROTEINS WITH INCREASED HOST STRING
TITLE OF INVENTION: CONTENT AND COMPOSITIONS THEREOF
FILE REFERENCE: 185832/US/5
CURRENT APPLICATION NUMBER: US/11/004,590
CURRENT FILING DATE: 2004-12-03
PRIOR APPLICATION NUMBER: US 60/527,167
PRIOR FILING DATE: 2003-12-04
PRIOR APPLICATION NUMBER: US 60/581,613
PRIOR FILING DATE: 2004-06-21
PRIOR APPLICATION NUMBER: US 60/601,665
PRIOR FILING DATE: 2004-08-13
PRIOR APPLICATION NUMBER: US 60/619,483
PRIOR FILING DATE: 2004-10-14
NUMBER OF SEQ ID NOS: 458
SOFTWARE: Patentin version 3.3
SEQ ID NO: 184
LENGTH: 117
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: Synthetic

Query Match 88.0%; Score 559; DB 7; Length 117;
Best Local Similarity 84.6%; Pred. No. 2.3e-38;
Matches 99; Conservative 10; Mismatches 8; Indels 0; Gaps 0;

Qy 1 QIQLOQSPPEVKPGASVKISCKASGIFTDYIITWKQKQGGLIEWIGWYPGSNTK 60
Db 1 QIQLVQSPPEVKPGASVKISCKASGIFTDYIITWKQKQGGLIEWIGWYPGSNTK 60

Qy 61 NEKFKGKATLTYDTSSTAFMOLSSLTSEDTAVFCANYGNWFAYWGQGTQVYSA 117
Db 61 NEKFQGRVITYDTSSTAYMELSLRSEDTAVFCANYGNWFAYWGQGTQVYSA 117

RESULT 11
US-11-004-590-178
Sequence 178, Application US/11004590
Publication No. US20060008883A1
GENERAL INFORMATION:
APPLICANT: Lazar, Gregory Alan
Desjariais, John R.
ATTORNEY: Hammond, Phillip W.
TITLE OF INVENTION: METHODS OF GENERATING VARIANT PROTEINS WITH INCREASED HOST STRING
TITLE OF INVENTION: CONTENT AND COMPOSITIONS THEREOF
FILE REFERENCE: 185832/US/5
CURRENT APPLICATION NUMBER: US/11/004,590
CURRENT FILING DATE: 2004-12-03
PRIOR APPLICATION NUMBER: US 60/527,167
PRIOR FILING DATE: 2003-12-04
PRIOR APPLICATION NUMBER: US 60/581,613
PRIOR FILING DATE: 2004-06-21
PRIOR APPLICATION NUMBER: US 60/601,665
PRIOR FILING DATE: 2004-08-13
PRIOR APPLICATION NUMBER: US 60/619,483
PRIOR FILING DATE: 2004-10-14
NUMBER OF SEQ ID NOS: 458
SOFTWARE: Patentin version 3.3
SEQ ID NO: 178
LENGTH: 117
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: Synthetic

Query Match 88.0%; Score 559; DB 7; Length 117;
Best Local Similarity 84.6%; Pred. No. 2.3e-38;
Matches 99; Conservative 10; Mismatches 8; Indels 0; Gaps 0;

Qy 1 QIQLOQSPPEVKPGASVKISCKASGIFTDYIITWKQKQGGLIEWIGWYPGSNTK 60
Db 1 QIQLVQSPPEVKPGASVKISCKASGIFTDYIITWKQKQGGLIEWIGWYPGSNTK 60

Qy 61 NEKFKGKATLTYDTSSTAFMOLSSLTSEDTAVFCANYGNWFAYWGQGTQVYSA 117
Db 61 NEKFQGRVITYDTSSTAYMELSLRSEDTAVFCANYGNWFAYWGQGTQVYSA 117

RESULT 12
US-11-004-590-180
Sequence 180, Application US/11004590
Publication No. US20060008883A1
GENERAL INFORMATION:
APPLICANT: Lazar, Gregory Alan
Desjariais, John R.
ATTORNEY: Hammond, Phillip W.
TITLE OF INVENTION: METHODS OF GENERATING VARIANT PROTEINS WITH INCREASED HOST STRING
TITLE OF INVENTION: CONTENT AND COMPOSITIONS THEREOF
FILE REFERENCE: 185832/US/5
CURRENT APPLICATION NUMBER: US/11/004,590
CURRENT FILING DATE: 2004-12-03
PRIOR APPLICATION NUMBER: US 60/527,167
PRIOR FILING DATE: 2003-12-04
PRIOR APPLICATION NUMBER: US 60/581,613
PRIOR FILING DATE: 2004-06-21
PRIOR APPLICATION NUMBER: US 60/601,665
PRIOR FILING DATE: 2004-08-13
PRIOR APPLICATION NUMBER: US 60/619,483
PRIOR FILING DATE: 2004-10-14
NUMBER OF SEQ ID NOS: 458
SOFTWARE: Patentin version 3.3
SEQ ID NO: 165
LENGTH: 117
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: Synthetic

Query Match 88.0%; Score 559; DB 7; Length 117;
Best Local Similarity 84.6%; Pred. No. 2.3e-38;
Matches 99; Conservative 10; Mismatches 8; Indels 0; Gaps 0;

Qy 1 QIQLOQSPPEVKPGASVKISCKASGIFTDYIITWKQKQGGLIEWIGWYPGSNTK 60
Db 1 QIQLVQSPPEVKPGASVKISCKASGIFTDYIITWKQKQGGLIEWIGWYPGSNTK 60

Qy 61 NEKFKGKATLTYDTSSTAFMOLSSLTSEDTAVFCANYGNWFAYWGQGTQVYSA 117
Db 61 NEKFQGRVITYDTSSTAYMELSLRSEDTAVFCANYGNWFAYWGQGTQVYSA 117

PRIOR FILING DATE: 2003-12-04
 PRIOR APPLICATION NUMBER: US 60/581,613
 PRIOR FILING DATE: 2004-06-21
 PRIOR APPLICATION NUMBER: US 60/601,665
 PRIOR FILING DATE: 2004-08-13
 PRIOR APPLICATION NUMBER: US 60/619,483
 PRIOR FILING DATE: 2004-10-14
 PRIOR APPLICATION NUMBER: US 60/619,483
 NUMBER OF SEQ ID NOS: 458
 SOFTWARE: PatentIn version 3.3
 SEQ ID NO: 180
 LENGTH: 117
 OTHER INFORMATION: Synthetic
 FEATURE:
 TYPE: PRT
 ORGANISM: Artificial
 OTHER INFORMATION: Synthetic
 US-11-004-590-180

Query Match 88.0%; Score 559; DB 7; Length 117;
 Best Local Similarity 84.6%; Pred. No. 2,8e-38;
 Matches 99; Conservative 10; Mismatches 8; Indels 0; Gaps 0;

Qy 1 QIQLQGQGPVVKPGASVKSCKASGTTFTDYYITWVKQPKQGLMWGYPGSNTK 60
 Db 1 QIOLVQGQGPVVKPGTTSVKSCKASGTTFTDYYITWVKQGLEMWGYPGSNTK 60

Qy 61 NEKFKGRATLTVDTSSSTAFLMQLSLTSEDTAVYFCANYGNYWPAWGQGTQVYSA 117
 Db 61 NEKFKGRATLTVDTSSSTAFLMQLSLTSEDTAVYFCANYGNYWPAWGQGTQVYSA 117

RESULT 13
 US-11-004-590-173
 ; Sequence 173, Application US/11004590
 ; Publication No. US/006000888A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Lazar, Gregory Alan
 ; APPLICANT: Desjarlais, John R.
 ; APPLICANT: Hammond, Phillip W.
 ; TITLE OF INVENTION: METHODS OF GENERATING VARIANT PROTEINS WITH INCREASED HOST STRING
 ; FILE REFERENCE: 185832/US/5
 ; CURRENT FILING DATE: 2004-12-03
 ; CURRENT APPLICATION NUMBER: US/11/004,590
 ; PRIOR FILING DATE: 2004-10-14
 ; NUMBER OF SEQ ID NOS: 458
 ; SOFTWARE: PatentIn version 3.3
 ; SEQ ID NO: 173
 ; LENGTH: 117
 ; TYPE: PRT
 ; ORGANISM: Artificial
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic
 US-11-004-590-173

Query Match 87.9%; Score 558; DB 7; Length 117;
 Best Local Similarity 84.6%; Pred. No. 3,3e-38;
 Matches 99; Conservative 11; Mismatches 7; Indels 0; Gaps 0;

Qy 1 QIQLQGQGPVVKPGASVKSCKASGTTFTDYYITWVKQPKQGLMWGYPGSNTK 60
 Db 1 QIOLVQGQGPVVKPGTTSVKSCKASGTTFTDYYITWVKQGLEMWGYPGSNTK 60

Qy 61 NEKFKGRATLTVDTSSSTAFLMQLSLTSEDTAVYFCANYGNYWPAWGQGTQVYSA 117
 Db 61 NEKFKGRATLTVDTSSSTAFLMQLSLTSEDTAVYFCANYGNYWPAWGQGTQVYSA 117

RESULT 14
 US-11-004-590-206
 ; Sequence 206, Application US/11004590
 ; Publication No. US/006000888A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Lazar, Gregory Alan
 ; APPLICANT: Desjarlais, John R.
 ; APPLICANT: Hammond, Phillip W.
 ; TITLE OF INVENTION: METHODS OF GENERATING VARIANT PROTEINS WITH INCREASED HOST STRING
 ; FILE REFERENCE: 185832/US/5
 ; CURRENT FILING DATE: 2004-12-03
 ; CURRENT APPLICATION NUMBER: US/11/004,590
 ; PRIOR FILING DATE: 2003-12-04
 ; PRIOR APPLICATION NUMBER: US 60/581,613
 ; PRIOR FILING DATE: 2004-06-21
 ; PRIOR APPLICATION NUMBER: US 60/601,665
 ; PRIOR FILING DATE: 2004-08-13
 ; PRIOR APPLICATION NUMBER: US 60/619,483
 ; NUMBER OF SEQ ID NOS: 458
 ; SOFTWARE: PatentIn version 3.3
 ; SEQ ID NO: 207
 ; LENGTH: 117
 ; TYPE: PRT
 ; ORGANISM: Artificial
 ; FEATURE:

OTHER INFORMATION: Synthetic
US-11-004-590-207

Query Match	87.7%	Score 557; DB 7; Length 117;
Best Local Similarity	82.9%	Pred. No. 4e-38;
Matches	97;	Conservative 12; Mismatches 8; Indels 0; Gaps 0;
Qy	1	QIQLQQSSPEVKPGASVKISCKASGTYFTDYYITWWRKQKPCQGLELIGWYYPGSGNTKY 60
Db	1	QIQLVQSSPEVKPGTSTKVKISCKASGTYFTDYYITWWRQAQGLELIGWYYPGSGNTKY 60
Qy	61	NEKFKGKATLYTDTSSTAFMOLSSTSBDAVYFCANYGNYWFAWNGQGTQTVSA 117
Db	61	NEKFQGRVMTVDTSSTAYLQICSLKAEDTAVYFCANYGNYWFAWNGQGTQTVSS 117

Search completed: March 17, 2006, 20:27:40
Job time : 24 secs